AMENDMENTS TO THE CLAIMS

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

Listing of Claims:

1. (Previously Presented) A feeding system for feeding animals on a farm, comprising:

an analyzer device for measuring in real time or near real time an amount of at least one constituent of solid feed to be fed to said animals;

a feeding device for feeding said animals; and

a control device,

wherein the control device is configured to control the analyzer device to repeatedly measure the amount of the constituent of the solid feed at least once a day,

wherein the amount of said constituent includes any one of a protein content, a fiber content, and a neutral detergent fiber (NDF) content, and

configured to control the feeding device to feed said animals repeatedly and at each instance based on the previous said repeatedly performed measurements.

2. (Previously Presented) The system of claim 1, wherein the control device is configured to control said analyzer device to measure the amount of said constituent of said solid feed immediately prior to the feeding of said animals.

3. (Previously Presented) The system of claim 1, wherein the control device is configured to control said analyzer device to measure the amount of said constituent of said solid feed a plurality of times per day.

4. (Previously Presented) The system of claim 1, wherein said solid feed is ensiled feed.

5. (Cancelled).

6. (Previously Presented) The system of claim 1, wherein the control device is configured to control said analyzer device to measure the amounts of a plurality of constituents of said solid feed, and configured to control said feeding device to feed said animals depending on the measurements of the amounts of the constituents of said solid feed.

7. (Previously Presented) The system of claim 1, wherein the control device is configured to control said feeding device to perform said feeding depending on an average value of said repeatedly measured amounts of said constituent.

8. (Previously Presented) The system of claim 1, wherein said analyzer device is a spectroscopic device for quantitative chemical analysis.

9. (Previously Presented) The system of claim 1, wherein said analyzer device is a near infrared (NIR) instrument.

10. (Previously Presented) The system of claim 1, wherein the control device is a computer-based processing and control device provided for managing of said animals including controlling of the feeding of said animals, wherein

said computer-based processing and control device includes:

a database including updated information regarding feed consumption by said animals;

is connected to receive said respective measured amounts of said constituent of said solid feed;

is provided to calculate an amount of solid feed to be fed to said animals based on the performed measurements and said updated information included in said database; and

is connected to indicate to said feeding device said calculated amount of solid feed to be fed to said animals.

11. (Previously Presented) The system of claim 1, wherein the control device is configured to control said feeding device to feed said animals with mixed solid feed having a balanced composition depending on the performed measurements.

12. (Previously Presented) The system of claim 1, wherein the control device is configured to control said feeding device to feed said animals with solid feed having ensilage and concentrate and/or additives depending on the performed measurements.

13. (Currently Amended) The system of claim 1, wherein said animals are grouped in different groups, such that the control device is configured to control said feed device to

feed different groups of animals with total mixed rations (TMR) of solid feed independently and in accordance with ~~on~~ the performed measurements.

14. (Previously Presented) The system of claim 13, wherein said animals are grouped in different groups depending on body condition and, provided that the animals are milking animals, depending on milk production, days in lactation, or number of lactations.

15. (Previously Presented) The system of claim 1, wherein said animals have a supply of partial mixed rations (PMR) of solid feed, including ensilage and concentrate, such that the control device is configured to control said feed device to feed each of said animals with additional concentrate feed individually and in accordance on the performed measurements.

16. (Previously Presented) The system of claim 1, wherein said animals are grouped in different groups, such that the control device is configured to control said feed device to (i) feed different groups of animals with roughage or ensilage depending on the performed measurements, and (ii) feed said animals with concentrate or additives individually and in accordance on the performed measurements.

17. (Previously Presented) The system of claim 1, wherein the control device is configured to control said feed device to feed different individuals of said animals with solid feed individually depending on the performed measurements.

18. (Previously Presented) The system of claim 1, wherein said feeding device is a vehicle filled with said solid feed, and said analyzer device is provided at said vehicle for measuring the amount of said constituent of said solid feed.

19. (Previously Presented) The system of claim 1, wherein said feeding device is an in-door feed wagon mounted on a rail in a ceiling, for automatic feeding.

20. (Previously Presented) The system of claim 1, further comprising a weighing machine or an optical device with image processing capabilities, provided for establishing in connection with said feeding, the actual feed consumption by said animals, wherein the control device is configured to control said feeding device to feed said animals depending on the established actual feed consumption by said animals.

21. (Previously Presented) The system of claim 1, wherein said animals are milking animals, further comprising a device provided for measuring a quality or a quantity of milk from said milking animals, and the control device is configured to control said feeding device to feed said milking animals depending on the measured quality or quantity of milk from said milking animals.

22. (Previously Presented) The system of claim 1, further comprising a device for measuring a quality of manure from said animals, wherein the control device is configured to control said feeding device to feed said animals depending on the measured quality of manure from said animals.

23. (Previously Presented) The system of claim 1, wherein the control device is configured to control said analyzer device to measure the amount of the constituent of the solid feed repeatedly and at least once a day automatically.

24. (Previously Presented) The system of claim 1, wherein the control device is configured to control said feeding device to feed said animals repeatedly and at each instance depending on the last one of said repeatedly performed measurements automatically.

25. (Withdrawn) A method for feeding animals on a farm, comprising:

measuring, performed by a control device, an amount of at least one constituent of solid feed to be fed to said animals in real time or near real time, repeatedly, and at least once a day by an analyzer device provided on the farm; and

feeding said animals repetitively and at each instant based on the previous said repeatedly performed measurements by a feeding device.

26. (Currently Amended) Use of a feeding system comprising an analyzer device and a feeding device for feeding animals, said analyzer device, performed by a control device, for measuring in real time or near real time, repeatedly, and at least once a day the amount of at least one constituent of solid feed to be fed to said animals, and said feeding device, performed by the control device, being used for feeding said animals repeatedly and at each instance based on the previous said repeatedly performed measurements,

wherein the amount of said constituent includes any one of a protein content, a fiber content, and a neutral detergent fiber (NDF) content.

27. (Previously Presented) The system of claim 1, wherein the control device comprises:

an analyzer control device to control the analyzer device to measure the amount of the constituent of the solid feed repeatedly and at least once a day; and

a feed control device for controlling the feed device to feed said animals repeatedly and at each instance based on the previous said repeatedly performed measurements.

28. (Previously Presented) The system of claim 1, wherein the control device is configured to control said analyzer device to measure the amount of said constituent of said solid feed at least three times per day.

29. (Previously Presented) The system of claim 1, wherein the analyzer device measures the amount of at least one constituent of solid feed to be feed to said animals at different locations in a feed supply device.

30. (Previously Presented) The system of claim 2, wherein the analyzer device measures the amount of at least one constituent of solid feed to be feed to said animals at different locations in a feed supply device.

31. (Previously Presented) The system of claim 30, wherein said feeding device is a vehicle filled with said solid feed, and said analyzer device is provided at said vehicle for measuring the amount of said constituent of said solid feed.

32. (Previously Presented) The system of claim 2, wherein said feeding device is a vehicle filled with said solid feed, and said analyzer device is provided at said vehicle for measuring the amount of said constituent of said solid feed.

33. (Previously Presented) The system of claim 32, wherein said vehicle is an in-door feed wagon mounted on a rail in a ceiling, for automatic feeding.

34. (Previously Presented) The system of claim 1, wherein the analyzer device measures all of the constituents of the solid feed to provide more accurate ration balancing and maximized production.

35. (Previously Presented) The system of claim 1, wherein the analyzer device is a spectroscopic device which measures quantitative chemical analysis.

36. (Previously Presented) The system of claim 35, wherein the spectroscopic device is a near infrared (NIR) instrument based on near infrared reflectance spectroscopy technique.

37. (Previously Presented) The use of claim 26, wherein the control device is configured to control said analyzer device to measure the amount of said constituent of said solid feed immediately prior to the feeding of said animals.

38. (Previously Presented) The use of claim 26, wherein the control device is configured to control said analyzer device to measure the amount of said constituent of said solid feed a plurality of times per day.

39. (Previously Presented) The use of claim 38, wherein the control device is configured to control said analyzer device to measure the amount of said constituent of said solid feed at least three times per day.

40. (Previously Presented) The use of claim 26, wherein the analyzer device measures the amount of at least one constituent of solid feed to be feed to said animals at different locations in a feed supply device.

41. (Previously Presented) The use of claim 26, wherein said feeding device is a vehicle filled with said solid feed, and said analyzer device is provided at said vehicle for measuring the amount of said constituent of said solid feed.

42. (Previously Presented) The use of claim 41, wherein said vehicle is an in-door feed wagon mounted on a rail in a ceiling, for automatic feeding.

43. (Previously Presented) The use of claim 26, wherein the analyzer device measures all of the constituents of the solid feed to provide more accurate ration balancing and maximized production.

44. (Previously Presented) The use of claim 26, wherein the analyzer device is a spectroscopic device which measures quantitative chemical analysis.

45. (Previously Presented) The use of claim 44, wherein the spectroscopic device is a near infrared (NIR) instrument based on near infrared reflectance spectroscopy technique.

46. (New) The system of claim 1, wherein the analyzer device further samples individual ingredients of a food mixture which make up the solid feed, wherein the sampling of the individual ingredients of the food mixture is performed before the individual ingredients are mixed together.

47. (New) The system of claim 46, wherein the mixing is performed based on a result of a measurement of the samples.

48. (New) The system of claim 1, wherein the analyzer device measures the amount of the at least one constituent of the solid feed to be fed to said animals at different locations within a storage device.

49. (New) The system of claim 1, further comprising an optical device with image processing capabilities for measuring the actual feed consumption in connection with each of the feedings.

50. (New) The system of claim 1, wherein different groups of animals are fed with total mixed rations of feed, independently, and at each instance, depending on the measured amount of the at least one constituent of solid feed.

51. (New) The system of claim 1, wherein the measured constituent include any one of vitamins, minerals, moisture, fat, starch, TKN, crude fiber, acid detergent fiber (ADF), and lignin.

52. (New) The feeding system of claim 1, wherein at least the animals, the analyzer device, and the feeding device are colocated.

53. (New) The feeding system of claim 1, wherein at least the animals, the analyzer device, and the feeding device are in situ.

54. (New) The feeding system of claim 2, wherein the amount of the at least one constituent of the solid feed is measured and the animals are fed in real time in situ.